



The MINUTEMAN

Official Newsletter of the Minuteman Repeater Association

The President's Corner

Andy Morrison, N1BHI

Season's Greetings to you all....I hope that all of you enjoy the holidays and have a prosperous new year.

As this is a full issue of the Minuteman, I'm going to keep this short. A few items of interest deserve mention: we have procured the new SCOM 7K controller for Weston, 146.82. We had planned not to include voice synthesis on this controller, but in the interest of making the autopatch operation consistent with '61 and 449.925, we decided to get that option. We plan to get the system up and running with the new controller before the end of January.

During the blizzard of '92 - I think we can get away with calling it that - we fared pretty well. No antennas came down, but we did lose power up at the 440 site in Marlboro for a few days; during the storm itself, the battery backup supported the system for two days. We are looking into adding a third battery to extend the life of the backup system.

Don't forget the flea market on March 20 of next year; it will be held at the Westboro High School once again, and we will need help from the membership to run the show. Volunteers should contact me, any other officer or board member. A specific request: if anyone knows of a source of 40 or more 2.5 by 5 or 6 foot folding leg tables that won't cost us a lot, let me know! The Westboro High cafeteria has been getting rid of its rectangular tables and replacing them with round ones that are not really suitable for flea market use.

The VE sessions run by Bob Levine and sponsored by the MMRA are producing lots of upgrades and new hams...talk up these sessions with anyone you know who wants to become a ham....we hope to get some new members from

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the ranks of those who get their licenses through our sessions.

The next meeting, Monday, January 13 will deal with MMRA plans to establish its interference committee, along with techniques and policies for dealing with interference problems. Hope to see you there!

Items of Interest

**Mark your calendar now for the
Third meeting of the 1992-1993**

Year:

**Monday January 11
Campion Center Weston**

7:30 pm

TOPIC:

**Establishing an Interference
Committee**

**Don't Forget to Renew
Your Membership !!!**

*A Membership for is included in this
issue. Be sure to return it soon so you
can receive the updated autopatch
codes when they are changed!!*

Ham Radio Calendar

Saturday Jan 2,3	ARRL RTTY Test
Mon Jan 4	MMRA Net 7:30
Mon Jan 11	MMRA Meeting
Sat Jan 9	MMRA VE Session
Mon Feb 1	MMRA Net 7:30
Sat Feb 13	MMRA VE Session
Sat Feb 13	AARC Flea Mkt
Mon March 8	MMRA Meeting

QSL -DX

Bob Levine, KD1GG

If you are relatively new into Ham radio or have just upgraded and are about to get on the HF bands more, you may have some questions about QSL procedures. This article will provide you with several of the methods we use to exchange QSL cards with other Ham stations.

Why QSL?

Many Hams QSL for many different reasons. Some are just enthusiastic "paper chasers". That is, they pursue various awards that require specific numbers or types of contacts. One of the most popular award is the Worked All States, or WAS for example. To qualify, you must present evidence of QSOs with someone in every state. The most common proof of QSO is the QSL card. It is considered common courtesy among HF users to keep a supply of QSL cards and use them whenever requested. You may be lucky enough to be some else's first Ham contact and they would like a QSL to remember the achievement.

How to QSL

I have found that the best method of assuring receipt of a QSL card is to ask the other person what is the best way to QSL. There are basically 3 options, direct, by a Manager, or by the QSL Bureau.

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Direct QSL

If you want a QSL card back direct, the best way domestically is to send a self-addressed stamped envelope to the other person with your QSL card inside. I keep a supply of small and business size envelopes for direct QSL'ing. Be sure to write the date, time (UTC), frequency (QRG), RST, and any other comments you want on your card. This makes it easy for the other person to reply quickly to you. I have had 100% success for domestic QSL'ing using this method. With envelopes costing about a penny each, this

method costs you about 60 cents + your card. Try to avoid sending QSL cards with just a stamp as a postcard. Invariably, the postmark will obliterate the nicest part of the card, or the Postal Service will mangle it a bit.

Internationally, direct QSL'ing can cost a small fortune but it usually does provide the best odds for getting a quick reply. These days, International postage is 50 cents. (Canada and Mexico are 45 cents) for 1 ounce. This is sufficient to cover the self-addressed envelope and your card. Don't send US stamps to your DX contact for return postage. He will want an IRC or a green stamp. An IRC is an International Reply Coupon which the DX contact can redeem at his local Post Office for postage in his country. 1 IRC equals "surface" postage for a 1 ounce letter in participating countries. These days, a NEW IRC should be sufficient to cover postage back to the USA, but not in all cases. You can try checking with the Post Office on this, but most postal employees are not 100% up to speed on International mail systems. You will be lucky to get one that even knows what an IRC is! It is best to check the International Callbook for the number of IRC's your DX country will require. There is a handy table in the front section with this information. 1 IRC currently costs 95 cents.

If your DX contact requests green stamps, he is asking you to send him a dollar bill. You should understand that although it is legal from the US Government's point of view to send out a dollar bill, it may be illegal for the DX station to receive US currency through the mail. This is the case for England for example. However, there are also countries where it is legal to receive currency through the mail such as Grenada. If you are in doubt, call the Postal Service like I did when I prepared this article! Another warning here, sending currency through the mail is risky. If you are planning to send currency to a former Soviet republic, I suggest you put the bill to a more useful purpose, like lighting your cigar. A Soviet postal worker will end up with your bill for sure.

I had a unique DX contact with an AP4 in Pakistan who requested I send him my QSL card in an unsealed envelope and send the dollar bill to his QSL manager in Florida with the QSO information. The QSL manager periodically sent the Pakistan station the list of stations he received the dollars from and the Pakistan station matched that list to the cards he received, and sent direct QSL's back to them. I

had my Pakistan QSL card in 6 weeks, so the system works. The reason he requested my card in an unsealed envelope is that in some third world countries like Pakistan, the few Hams are known by some dishonest Postal employees who steal the Hams mail when they think it may contain green stamps inside. By using an unsealed envelope, they see no green stamps and usually will deliver the mail.

QSL via the Bureau

The QSL Bureau (or Buro as it is known to DXers) is a simple but mysterious system to the novice DXer. The system works very well and has two parts, the Outgoing Bureau and the Incoming Bureau. This is how it works:

Outgoing QSL Bureau

The Outgoing Bureau is run by the ARRL. To use it, you must be an ARRL member. This is by far the cheapest way to QSL. This feature of League membership saves me a great deal of money every year. When you have saved up a pile of QSL cards, you sort them in Bureau order (which is basically alphabetic with some small differences) and send them in a box with a check for \$2.00 per POUND and a recent QST address label (proving membership) to ARRL HQ. The League will then forward them (eventually) to the many countries served by the Bureau system. Not all countries participate and some countries will only forward cards to members of their own version of the ARRL. The country Incoming Bureau system then distributes the cards to the individual operators.

Incoming Bureau

The Incoming QSL Bureau in W1 Land is run by the Yankee Clipper Contest Club (YCCC). You may know the YCCC by the Packetcluster which is owned and maintained by the YCCC. Cards for W1 Land amateurs are received at the YCCC mailbox in Springfield. These very large boxes, sacks, etc... are then distributed to the Primary sorters. I have attended sorting parties and they are a great social event. Not only do you get to see all kinds of great cards, but you get your cards early. Primary sorters sort by the first letter following the 1. After the primary sorters are done, the one box of cards has become 26. (xx1Axx, xx1Bxx, ..., xx1Zxx) They cards then go to the next group of sorters and so on. Eventually, someone will put you cards in the mail to you IF you have provided the W1 Bureau with envelopes and postage money. If you expect cards, you should send #6 size envelopes and a CHECK to cover postage. They

are computerized so they will keep a postage account for you. If you send them \$20.00 and they spend \$1.25 to send you an envelope of 30 cards for example, they will deduct it from your account. When your postage account gets low, they will notify you. If you would like to "stock" up the incoming buro for yourself, send a batch of #6 envelopes and your check to :

**W1 QSL Bureau
PO Box 80216
Springfield, MA 01138-0216**

Put your call sign (and all previous call signs that might receive cards!!!) on the upper left hand corner of the #6 envelopes.

QSL via Manager

Rare DX stations sometimes have QSL managers. The managers may even live in the US which makes QSL'ing very easy and cheap. You just send your card and the SASE to the QSL manager, and he acts as the DX station's agent. He may need to wait for the DX station to send him a log to verify contacts, but I have found this to be the exception rather than the rule. Many of the Ham radio publications list the more popular DX QSL managers.

Well, I hope you picked up some useful information from this article. If you need any further information about the ARRL QSL Bureau, you can contact the league at (203) 666-1541. For YCCC info, you can contact me.

73 Bob

Joe KC1D	Pete KI1M	Nancy N1CXC
<hr/>		
RIVENDELL Electronics		
<hr/>		
(603) 434-5371		
8 Londonderry Road Derry, NH 03038		

FLASH: Due to an oversight, the 1992 MMRA Field Day scores were not sent into the ARRL. The final MMRA score was 2624 points. There were 864 cw points, 960 phone points and 800 bonus points

Sincerely
MMRA Management

Editor's Column

Bob Levine KD1GG

Field Day!!!

We are well into the MMRA year which means it is time to start thinking about another Field Day. If you are a Field Day fanatic like me, you have already reserved the weekend of June 26 on your calendars. I would like to see a bigger effort this year with greater participation than last year. There is no reason why such a large organization such as the MMRA can't field a team of dedicated Hams and blow the doors off the local "competition".. This year's Field Day should be an event where many of the newer Hams can come and possibly get their first taste of HF SSB & CW, Packet,, computer logging and Frank's chili. Maybe you know of a great site that you could suggest that is a bit more accessible to the public than last year's. Let's pool our resources and have a great time this year.

Know Code

I have several items that I don't need anymore that I would like to see go to good use. I have the ARRL 13 & 20wpm cassette tape set and the W5YI tapes, as well as some slower speed tapes. I offer these to anyone for free for indefinite loan. If you want to borrow them, please contact me at (508)485-7006. I also have the latest version of Super Morse (V3.16) for IBM PC and clones that I will distribute for free. (It is shareware)

HF Logging Programs

One of the advertisers in this issue is WB2OPA. Alan Yorinks is the author of a computer logging program for IBM PC and compatibles. I have used this program for 2 years now and it is pretty slick. There are many varieties of logging programs available but I believe that WB2OPA is the best DOS based program I have seen. The program interfaces to the PacketCluster and your HF rig. When a DX Spot is seen for a country you need, you can "grab" that spot. The program can AUTOMATICALLY QSY your rig and complete most of the information in the log for you. All you need to do is make the contact. The frequency is read from the packet spot and sent to your rig. The callsign is also read from the spot and entered in your log. The program includes a Custom Report Generator so you can monitor your progress towards whatever you want. You can print QSL labels or cards directly from your log. The program is even smart enough to put PSE QSL if you haven't confirmed the contact, or TNX QSL if you have confirmed it! The program also has the necessary hooks to complete the name and address field of the log if you have one of several Ham Callsign databases on your computer. You just enter the stateside callsign and the name and address pop up into the log screen. The interface is fairly simple and the program is very fast. There is even an interface to a voice keyer so you can even send your exchange directly from the program. Consider this program when you decide that your paper logs are out of control!!!!

The MMRA VE Team

The MMRA VE Team held exam sessions on Nov 14th and Dec 19. So far we have given 69 exams to 29 candidates. We have had 13 new hams and 11 upgrades. Congratulations to all.

Currently the VE Team is composed of:

Ira WA1W, Mark AA1DT, Steve K1ST, Ron N6CJM, Lou KD1KF, Bill K1IJZ, Dave KD1GH, Charlie WN1E, Ken KA1GFN and myself. If you are an Advanced or an Extra Class Ham and would like to participate on the team, please contact me. If you are not already a VE, I will assist you in getting your VE credentials from the ARRL.

We do need a few more VEs for the team, so please consider helping out. Special thanks to Dan Brevik KZ1D for helping on 12/19/92.

The VE Schedule for future exams is:

19-December and then the second Saturday of the month for January - May 1993. (9-January, 13-February, 13-March, 10-April, 8-May) All exams are at the Marlboro Public Library and we ask candidates to arrive at 9:00am. We will provide the newest version of the 610. (This new version is now required for Physician Code Waivers)

If you or anyone you know would like to sign up for an exam, please contact me by phone since. Reservations are required

Minuteman Repeater Association, Inc.
P. O. Box 2282
Lexington, MA 02173

A Non-Profit Communications Organization Serving the Public in Time of Emergency.

-Application for Membership-

- ☐ New or ☐ Renewal
☐ Individual Membership (Dues \$25 per year) ☐ Family Membership (Dues: \$35 per year)
☐ Novice Membership (1st year dues: \$10)

I hereby apply for Membership in the MINUTEMAN REPEATER ASSOCIATION, INC. I agree to abide by the rules and regulations of the Association as stated in the By-Laws, and understand that acceptance of this application entitles me to all rights and privileges of membership as provided under the By-Laws.

Signature: _____ Date: _____

Name: _____ Callsign: _____ Class of License: _____

Home Address: _____

Member of: ARRL? _____ Other Clubs? _____

Equipment Available for Your Use:

Type	No.	Mobil	Port.	Fixed	DTMF	FM	SSB	Packet	CW	Patch	Rtty
HF	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VHF	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UHF	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

I can and am willing to assist/serve the Association an/or help maintain the Repeaters in the following ways (check all appropriate boxes)

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|---|---|---|---|
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| <input type="checkbox"/> Xmitter | <input type="checkbox"/> Refreshment | <input type="checkbox"/> CW <input type="checkbox"/> Theory | <input type="checkbox"/> Schematic Drawing |
| <input type="checkbox"/> Logic | <input type="checkbox"/> Newsletter | <input type="checkbox"/> Medical Aid | <input type="checkbox"/> Tech Committee-Rptr: _____ |
| <input type="checkbox"/> Telephone | <input type="checkbox"/> Special Projects | <input type="checkbox"/> Meeting Set-up | <input type="checkbox"/> Control Op.-Rptr: _____ |
| <input type="checkbox"/> Publicity | <input type="checkbox"/> Assoc. Officer | <input type="checkbox"/> Bldg Construction | <input type="checkbox"/> Bd of Directors |
| <input type="checkbox"/> Equipment Construction | | <input type="checkbox"/> Field Day | <input type="checkbox"/> Emergency Comm. |
| <input type="checkbox"/> VE Team(Adv/Extra) | | <input type="checkbox"/> Other-Specify: _____ | |

Please return this form with your Dues to: MMRA
PO Box 2282
Lexington, MA 02173

Amateur Radio Flea Market

Saturday March 20, 1993
Minuteman Repeater Association

Location:

Westboro High School

From Route 495 take Route 9 west to Route 30 . Take Route 30 west into Westboro Center. Go around the traffic circle and continue on Route 30 west. The High School is on the left about 1/4 mile out of town.

Doors open at 8:00 am for Vendors
10:00 am for Buyers

Close at 2:00 pm

Admission is \$2.00 for buyers

Talk-In Repeaters

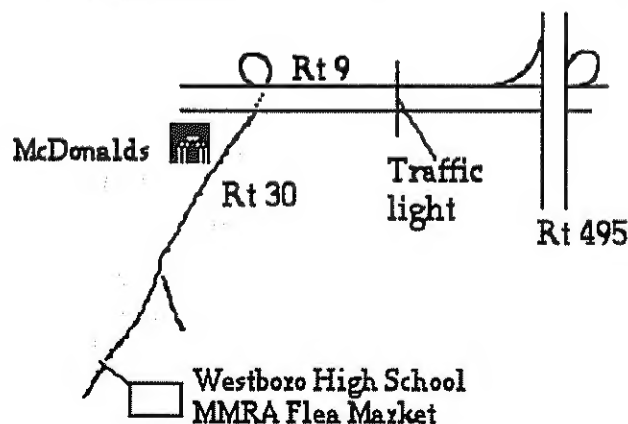
146.61

449.925

223.94

If paid by March 15	Tables \$10.00	Floor Space 3'x6' \$5.00	(one free admission
At the door	\$15.00	\$8.00	for each table)

Send Table Orders to: MMRA
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Lexington MA 02173



For more info call
N1BHI Andy (508) 481-3878
N1HBR Walt (508) 481-0994

VE Exam Schedule:

KC10X publishes a bi-monthly list of places where you can go to take Amateur Radio Examinations. I have edited the schedule to only include the Massachusetts sessions. You can download the complete list via packet radio (as I did) from several sources if you are interested in sessions in the neighboring states. Be aware that this is not a complete listing of all sessions as VE's are not required to schedule their sessions with Chick. You can get an updated list direct from the ARRL at (203) 666-1541 or from W5YI at (817) 461-6443, although there is no requirement that forces a VE Team to register their session with their VEC. However, all sessions do have to be announced to the public somewhere. The MMRA Team complete schedule can be found elsewhere in this issue.

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*****<< THE KY1N MEMORIAL LIST >>*****
**          SCHEDULED VE EXAMS   CT MA ME NH RI VT          **
**          DECEMBER 1,1992                                     **
*****<< CHICK-KC10X-EDITOR >>*****
**  "PLEASE CHECK WITH THE CONTACT PERSON, AS SOME DATES ARE TENTATIVE" **
**          "P = PREREGISTRATION MANDATORY = P"                **
*****
DATE  LOCATION      STATE  VEC      TALK IN  CONTACT  CALL      TELEPHONE #
JANUARY *****
P 3  Fort Devens     MA     ARRL     145.410  Tom      WA1RHP    508-425-6672
    4  Cambridge Lotus MA     ARRL     145.230  Bob      N1KDA     617-593-1955
P 9  Marlboro MMRA  MA     ARRL     146.6    Bob      KD1GG     508-485-7006
    9  Falmouth        MA     LAUREL   146.655  Geoffrey K1IIR    508-548-0969
P 10 Fort Devens     MA     ARRL     145.410  Tom      WA1RHP    508-425-6672
    10 Gloucester     MA     ARRL     145.130  Al       AG1F      508-922-3307
P 11 Shirley        MA     ARRL     145.410  Tom      WA1RHP    508-425-6672
    13 Billerica      MA     ARRL     147.120  Bruce    W1LUS     508-851-2886
    16 Melrose        MA     ARRL     147.075  Scott    WB1F      617-322-7654
P 17 Fort Devens     MA     ARRL     145.410  Tom      WA1RHP    508-425-6672
    17 Athol           MA     ARRL     145.370  John     WF1L      508-249-5905
    20 Cambridge MIT  MA     W5YI     145.230  Nick     K1MQX     617-253-3776
    22 Holyoke         MA     ARRL     146.940  Jim      WA1ZUH    413-245-3228
P 24 Fort Devens     MA     ARRL     145.410  Tom      WA1RHP    508-425-6672
P 25 Shirley        MA     ARRL     145.410  Tom      WA1RHP    508-425-6672
P 31 Fort Devens     MA     ARRL     145.410  Tom      WA1RHP    508-425-6672
*****
**          "P = PREREGISTRATION MANDATORY = P"                **
**  "PLEASE CHECK WITH THE CONTACT PERSON, AS SOME DATES ARE TENTATIVE" **
*****
**  Please remember to bring the following with you when taking exam **
**          (a) Original FCC-issued license (if already licensed) **
**          (b) Copy of current license (if already licensed) **
**          (c) Original of all CSCE's you are claiming **
**          (d) Copies of all CSCE's you are claiming **
**          (e) Two (2) forms of ID (One with photo) **
**          (f) $5.40 (if other than Novice exam) 1993 = $5.60 **
*****
**  THIS LISTING IS DISTRIBUTED ON THE FIRST & FIFTEENTH OF EACH MONTH **
**  For the latest update, check KC10X-2 on 145.050 via KNGSTN **
**  WORK # For a copy of the latest listing, send a SASE to # HOME **
**  508-250-8607 KC10X 6 Anne Drive, Hampstead NH 03841 603-329-6072 **
**  All VE teams are invited to contribute to this list. For additions or **
**  corrections please leave a message at BBS KC10X-2 or KC10X @ WB1DSW.NH **
*****<< THE KY1N MEMORIAL LIST >>*****

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The following humorous article comes from Scott Cole on the Ham Radio Relaynet Conference.

Thanks to K1OIK for re-posting it. (tnx Burt!)

DICTIONARY FOR THE NEW AMATEUR RADIO OPERATOR.!

With the arrival of the new licensing regulations, we eagerly anticipate an influx of new amateurs. Those who tune in for the first time may be surprised to discover that the current inhabitants of the airwaves appear to be communicating in a language which bears only a passing resemblance to English. For the benefit of the newly licensed, the following is intended as a primer in this mysterious form of communication.

WE

It is not generally realized that, as the result of an obscure clause in the licensing regulations, the holder of an amateur radio licence becomes plural immediately upon receiving the licence. This is a privilege that was formerly reserved for royalty ("We are not amused"), but with the advent of radio has been extended to all licensed amateurs. Thus, before you became licensed you would say "I am driving down the road". Once licensed this becomes "We are driving down the road".

Roses are red, Violets are blue, I'm schizophrenic, And so am I (we)

HI (or HI)

A hangover from the days of CW communication, this was intended to convey a laugh in code. In audio communications the use of this expression means either:

a)The joke I (we) just told was so unfunny that I (we) find it necessary to draw your attention to my (our) pathetic attempts at humour.

b)I (we) suspect that the modulation on my (our) radio is so poor that it is unable to reliably reproduce the sound of a laugh.

SHACK

Be it ever so humble, all non-mobile radio equipment is housed in a "shack". Even though many of our wealthier brethren have megabucks of real estate devoted to the hobby, it is still referred to by this unfortunate epithet. Perhaps a hangover from the arrival of indoor plumbing,

when the budding ham was left with a redundant outdoor structure in which to house his equipment?

SILENT KEY

Passed over, passed away, ceased to be, gone to Glory, gone to that great ham shack in the sky, moved to Moncton! Obviously amateurs are as coy as the rest of the population when it comes to uttering the "D" word. Actually, since the introduction of voice transmission, the vast majority of the amateur population are silent when it comes to keys.

BAREFOOT

Originally a method of ensuring that the operator would provide a reliable path to ground in the event that he came into contact with a lethal source of power (see Silent Key above), this now refers to running a transmitter without the addition of an external power amplifier.

TWISTED PAIR

Thought by many to refer to two strange individuals given to certain unusual (and, in some communities, illegal) practices, this is actually a complex way of saying "telephone". Fortunately not in common use outside the ham community, or the Bell Twisted Pair Company would probably not have attained the position that it now enjoys.

XYL

The feminists favourite! It means "Wife" or, more likely, "The Wife" (eX Young Lady - XYL! Get it?). It's not entirely clear whether this intended to imply that the person in question is either no longer young, has ceased to be a lady, or both. Presumably with the current high incidence of divorce (yet another possible bi-product of your new found obsession with Amateur Radio), there are also a number of XXYLs out there. Habitually referring to your Spouse in her presence as "The XYL" has been known to hasten this process.

HARMONICS

The unwanted bi-product of an oscillation. For some reason this has now come to mean "children". Obviously the term was coined by someone who didn't have any because houses containing them are rarely harmonious.

73

Chosen for its rhythm in morse, this means "Best wishes". It takes the same number of

syllables to speak it as "best wishes" so no real time penalty. This one is now metamorphosing into "Best 73s" which translates to "Best best wishes's"

88

"Love and Kisses". Chosen for who knows what reason. Usually employed by YLs and XYLs (see above), this should be utilized with care by all who do not fit either of these categories!

807

A type of vacuum tube popular as a power output device a few years ago. This term is now used as a reference to beer - presumably because the glass bottle of the 807 bears absolutely no resemblance to a container for the Golden Throat Charmer!

"Q" CODES

These are three letter codes, all starting with the letter "Q" which are ciphers for complex phrases. My personal favourite is - "Shall I point my searchlight nearly vertical on a cloud, occulting if possible, and when your aircraft is seen deflect the beam upwind and on the water or land to facilitate your landing?" Needless to say, this one is not in common usage among amateurs!

With the introduction of audio transmission, the codes became redundant, but there are still those out there who speak the codes as a means of separating the cognoscenti from the uninitiated.

QSL

Originally "I acknowledge receipt", now:

1. A way to say "Yes" using three syllables instead of one.
2. An alternate to "Roger", the single most popular name among amateurs (Roger, Roger).
3. The amateur equivalent of a "Big Ten-four".
4. A reference to those little pieces of card with call letters on them which are totally unknown to certain Scottish members of our group.

QSO

This is supposed to mean "Can you communicate with direct or by relay?" but has now been converted into a word (pronounced KEWSO) to substitute for "chat". Thus, once licensed, you no longer chat to a friend, you have a Kewso with him (or her). Worse yet, if this conversation were to take place without the aid of radio, it would become an "Eyeball Kewso"! There is very little evidence of serious or lasting optical damage as a result of this strange practice,

although it has been publicly condemned by the College of Ophthalmic Opticians. However, until he gains experience, the new ham is advised to wear protective eyewear for his first few "Eyeball Kewso's".

QSY

Officially "Please change frequency to —kHz." On 2 metres now used to indicate that you are moving (QSYing) to another repeater. Harder to say but much more satisfying.

QRT

Officially either "I am ceasing transmission" or "Please cease transmission". In audio it becomes "going QRT". See also "Going clear" (not to be confused with transparent).

QRU

It means "I have nothing for you". If you have nothing to say, why say it? (Because the two metre band would be totally silent if we all did that, that's why!)

QTH

Yet another advantage of your licence. You no longer have a house, apartment or address - you now have a QTH! Actually, it's supposed to mean "What is your position (or My position is) in latitude and longitude (or according to any other indication)."

Other people merely live in your town - you have a QTH there.

QLF

"Shall I send with my left foot". This one is not usually accompanied by identifying call letters. Having sent this, it is recommended that you QSY or QRT immediately.

I've trimmed this darn cable 3 times and it's still too short!!!!

WORLDWIDE DISTRIBUTION



Barry Onigman
N1DNU

224 N. Broadway
Salem, NH 03079
(603) 898-3750, 1-800-444-0047

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SUNNYVALE, CA • VAN NUYS, CA • WOODBRIDGE, VA

The Minuteman

Newsletter of the Minuteman Repeater Association - January 1993
Volume 22 Number 3

Repeater Information:

Weston	146.82	KA1AL/R	PTL	P
Marlboro	146.61	N1BHI/R	FTL	P
Marlboro	449.925	N1HBR/R	FTL	P
Stoneham	146.715	N1DKZ/R	PTL	P
Quincy	146.67	KA1HKP/R	PTL	P
Quincy	224.40	KA1CLX/R	FTL	
Weston	224.70	N1HBR/R	FTL	
Hopkinton	223.94	N1BHI/R	FTL	

FTL=Full Time Linked PTL=Part Time Linked P=Autopatch

Officers and Board of Directors:

President:	Andy Morrison, N1BHI	508-481-3878
Vice President:	Walter Ching, N1HBR	508-481-0994
Secretary:	Frank Morrison, KB1FZ	508-443-6047
Treasurer:	Ian MacLennan, AF1R	
Clerk:	Al Williams, KA6BUV	
Directors:	Tom Qualtieri, WB1GMA	Al Kunian, KA1AL
	Scott Bullock, KA1CLX	Mike Ryan, N1KRJ
Newsletter Editor:	Bob Levine, KD1GG	508-485-7006

Membership Meetings: 2nd Monday of Sept, Nov, Jan, Mar, May (except Sept 21 this year) at
Campion Center, Weston at 7:30pm

Board Meetings: 2nd Monday of Oct, Dec, Feb, Apr. Meetings are open and members are welcome.
If a visiting member wants to be on the agenda, please contact Andy Morrison
beforehand.

The MMRA is dedicated to Amateur Radio and the public service. The MMRA is a registered non-profit Massachusetts corporation. Membership is open to all amateurs. Annual dues are \$25.00 individual, \$35.00 family.

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TO: